

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application;

Claim 1. (Currently Amended) A reproducing method for reproducing an audio signal, comprising the steps of:

delivering an audio signal to ~~respective a~~ a first plural plurality of digital filters;

delivering outputs of the first ~~plural~~ plural plurality of digital filters to ~~respective plural a~~ a plurality of speakers, respectively, constituting a speaker array to form a sound field;

respectively setting predetermined delay times at the first ~~plural~~ plural plurality of digital filters so that respective propagation delay times required until the audio signal arrives at a first point within the sound field through the first ~~plural~~ plural plurality of digital filters and the respective ~~plural~~ plural plurality of speakers coincide with each other;

delivering the audio signal to ~~the respective a~~ a second plural plurality of digital filters;

respectively delivering outputs of the second ~~plural~~ plural plurality of digital filters to the ~~plural~~ plural plurality of speakers; and

respectively setting predetermined transfer characteristics at the second ~~plural~~ plural plurality of digital

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filters so as to control sound at a second point within the
sound field among sounds formed from outputs of the first
~~plural~~ plurality of digital filters.

Claim 2 (Currently Amended) The reproducing method for
reproducing an audio signal as set forth in claim 1,

wherein a sound wave radiated from the speaker array is
reflected on a wall surface, and arrives at the first point.

Claim 3 (Currently Amended) The reproducing method for
reproducing an audio signal as set forth in claim 1,

wherein the second point is at substantially the same
location as the first point.

Claim 4 (Currently Amended) A reproducing method for
reproducing an audio signal, comprising:

delivering an audio signal to ~~respective~~ a first plural
plurality of digital filters;

delivering outputs of the first ~~plural~~ plurality of
digital filters to a respective ~~plural~~ plurality of speakers
constituting a first speaker array to form a sound field;

respectively setting predetermined delay times at the
first ~~plural~~ plurality of digital filters so that respective
propagation delay times required until the audio signal
arrives at a first point within the sound field through the

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first ~~plural~~ plurality of digital filters and the respective plurality of speakers of the first speaker array coincide with each other;

delivering the audio signal to ~~respective~~ a second ~~plural~~ plurality of digital filters;

delivering outputs of the second ~~plural~~ plurality of digital filters to a respective ~~plural~~ plurality of speakers constituting a second speaker array; and

respectively setting predetermined transfer characteristics at the second ~~plural~~ plurality of digital filters so as to control sound at a second point within the sound field among sounds formed from outputs of the first ~~plural~~ plurality of digital filters.

Claim 5 (Currently Amended) The reproducing method for reproducing an audio signal as set forth in claim 4,

wherein a sound wave radiated from the first speaker array is reflected on a wall surface, and arrives at the first point.

Claim 6 (Currently Amended) The reproducing method for reproducing an audio signal as set forth in claim 4,

wherein the second point is at substantially the same location as the first point.

Claim 7 (Currently Amended) A reproducing apparatus for reproducing an audio signal, comprising:

a first plural plurality of digital filters each supplied with an audio signal;

a second plural plurality of digital filters each supplied with the audio signal; and

a speaker array ~~caused to be of the~~ in a configuration in which ~~plural plurality of~~ speakers are arranged

~~to respectively deliver, in which~~ outputs of the first ~~plural plurality of~~ digital filters are delivered to the respective ~~plural plurality of~~ speakers to form a sound field

~~to respectively set, in which~~ predetermined delay times are set at the first ~~plural plurality of~~ digital filters so that respective propagation times required until the audio signal arrives at a first point within the sound field through the first ~~plural plurality of~~ digital filters and the respective ~~plural plurality of~~ speakers coincide with each other

~~to respectively deliver, in which~~ outputs of the second ~~plural plurality of~~ digital filters are delivered to the respective ~~plural plurality of~~ speakers

~~to respectively set, and in which~~ predetermined transfer characteristics are set at the second ~~plural plurality of~~ digital filters so as to control sound at a second point

within the sound field among sounds formed from outputs of the first ~~plural~~ plurality of digital filters.

Claim 8 (Currently Amended) The reproducing apparatus for reproducing an audio signal as set forth in claim 7,

wherein a sound wave radiated from the speaker array is reflected on a wall surface, and arrives at the first point.

Claim 9 (Currently Amended) The reproducing apparatus for reproducing an audio signal as set forth in claim 8,

wherein the second point is at substantially the same location as the first point.

Claim 10 (Currently Amended) The reproducing apparatus for reproducing an audio signal as set forth in claim 7,

~~which includes plural~~ further comprising a plurality of subtraction circuits respectively supplied with outputs of the first ~~plural~~ plurality of digital filters and outputs of the second ~~plural~~ plurality of digital filters ~~to respectively deliver,~~ in which outputs of the ~~plural~~ plurality of subtraction circuits are respectively delivered to the plural speakers.

Claim 11 (Currently Amended) A reproducing apparatus for reproducing an audio signal, including:

a first ~~plural~~ plurality of digital filters each supplied

with an audio signal;

a second plural plurality of digital filters each supplied with the audio signal;

a first speaker array ~~caused to be~~ in a first of the configuration in which ~~plural~~ plurality of speakers are arranged; and

a second speaker array ~~caused to be of the~~ in a first configuration in which ~~plural~~ plurality of speakers are arranged

~~to deliver~~ wherein outputs of the first ~~plural~~ plurality of digital filters are delivered to the respective ~~plural~~ plurality of speakers constituting the first speaker array to form a sound field,

~~to respectively set~~ wherein predetermined delay times are set at the first ~~plural~~ plurality of digital filters so that respective propagation delay times required until the audio signal arrives at a first point within the sound field through the first ~~plural~~ plurality of digital filters and the respective speakers of the first speaker array coincide with each other,

~~to deliver~~ wherein the audio signal is delivered to the respective second ~~plural~~ plurality of digital filters

~~to respectively deliver~~ wherein outputs of the second ~~plural~~ plurality of digital filters are delivered to the respective ~~plural~~ plurality of speakers constituting the

second speaker array, and

~~to respectively set~~ wherein predetermined transfer characteristics are set at the second ~~plural~~ plurality of digital filters so as to control sound at a second point within the sound field among sounds formed from outputs of the first ~~plural~~ plurality of digital filters.

Claim 12 (Currently Amended) The reproducing apparatus for reproducing an audio signal as set forth in claim 11,

wherein a sound wave radiated from the first speaker array is reflected on a wall surface, and arrives at the first point.

Claim 13 (Currently Amended) The reproducing apparatus for reproducing an audio signal as set forth in claim 12,

wherein the second point is at substantially the same location as the first point.